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<p>(54) Title: IMPROVED BUILDING WALL AND METHOD OF CONSTRUCTING SAME</p> <p>(57) Abstract</p> <p>A simple, environmentally benign building (2) for on-site erection and fabrication is made of monolithic, architectural, structural walls (1), beams, girders, joists and panels (8) of relatively high physical strength which exhibit great durability and resistance to fire, wind and seismic damage and which have highly desirable acoustic and thermal transfer characteristics. The wall is constructed by casting a core (10) of flowable fibrous, foam cement mix between two, thin panels (8) of manufactured, exterior-grade fiberglass reinforced cement board. Particles and proteins from the core mix penetrate, migrate into and fill interstitial spaces in the cement board, forming a strong, continuous and homogenous bond between the fill material (10) and the board itself. This imparts additional strength to the cement board by filling the interstitial voids, creating a solid, homogeneous wall. The wall, girder, etc. structure is fabricated at the building site to form seamless, monolithic wall units according to the lost-form system of casting by erecting, assembling and appropriately connecting the fiber cement boards (8). An outer cement board (8) is used as a permanent form creating one side of the building wall. The fiber-foam-cement core supplies structural strength, insulating properties and monolithic bonding of all components. An inner, cement board (8) creates the interior side of the wall.</p>			